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graph TD; 2[DECOMPOSING  
SPEECH SIGNAL INTO  
A STRING OF SYLLABLES] --> 4[MAPPING  
THE STRING OF SYLLABLES  
INTO A STRING OF TONE DATA]; 4 --> 6[FORMING  
A STRING OF MUSICAL NOTES  
ACCORDING TO TONE DATA]; 6 --> 8[ADDING TIMBRE, TEMPO &  
PITCH RANGE TO MUSICAL  
NOTES (OPTIONAL)]; 8 --> 10[MODULATING  
SPEECH SIGNAL  
WITH MUSICAL NOTES]; 10 --> 12[MIXING  
MODULATED SPEECH SIGNAL  
WITH UNMODULATED SPEECH  
SIGNAL (OPTIONAL)]; 12 --> 14[GENERATING  
AUDIBLE SIGNAL];
```

The flowchart illustrates a process for generating an audible signal from a speech signal. It consists of seven sequential steps, each in a rectangular box, connected by downward-pointing arrows. The steps are numbered 2 through 14 on the right side of the diagram.

- 2 DECOMPOSING
SPEECH SIGNAL INTO
A STRING OF SYLLABLES
- 4 MAPPING
THE STRING OF SYLLABLES
INTO A STRING OF TONE DATA
- 6 FORMING
A STRING OF MUSICAL NOTES
ACCORDING TO TONE DATA
- 8 ADDING TIMBRE, TEMPO &
PITCH RANGE TO MUSICAL
NOTES (OPTIONAL)
- 10 MODULATING
SPEECH SIGNAL
WITH MUSICAL NOTES
- 12 MIXING
MODULATED SPEECH SIGNAL
WITH UNMODULATED SPEECH
SIGNAL (OPTIONAL)
- 14 GENERATING
AUDIBLE SIGNAL

1

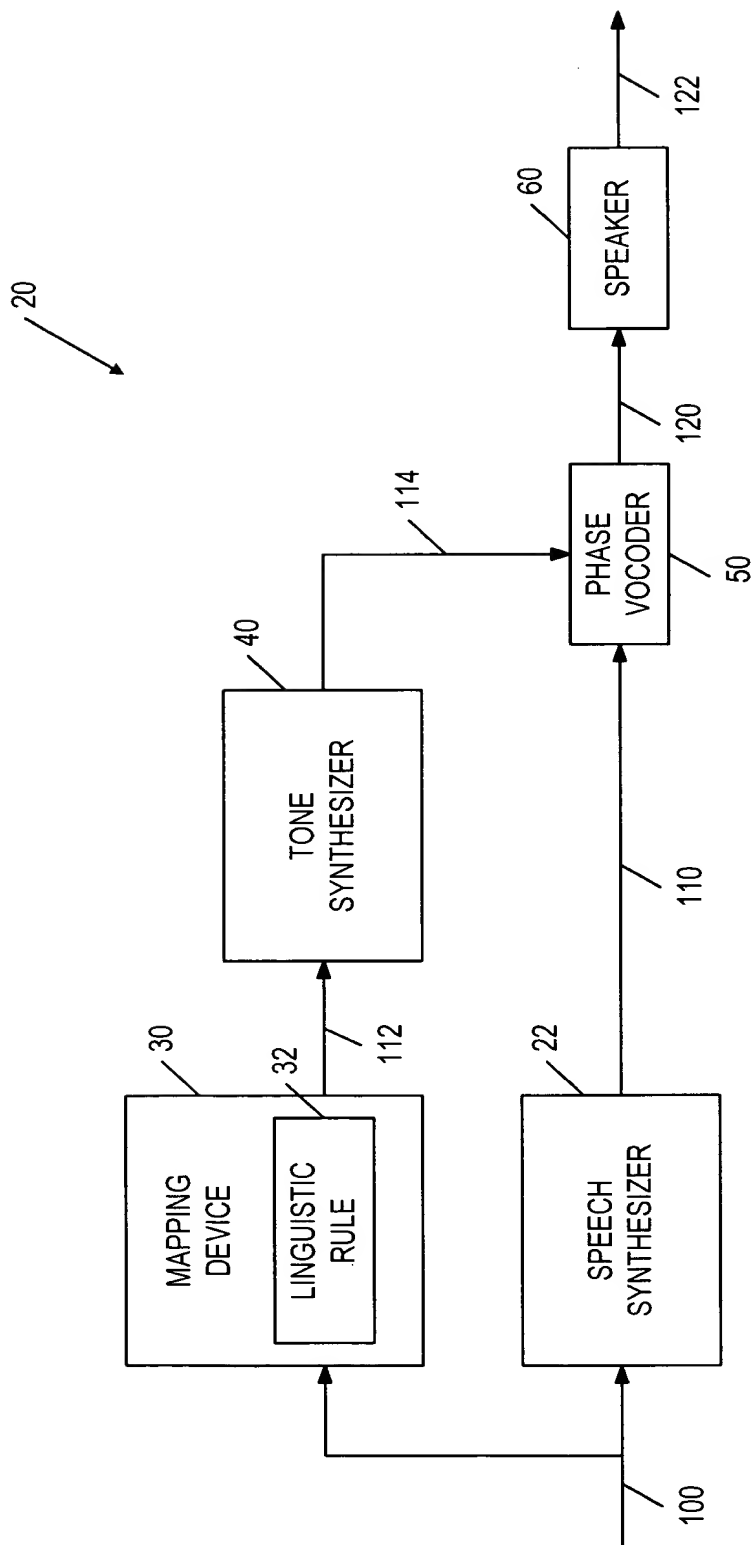


FIG. 2

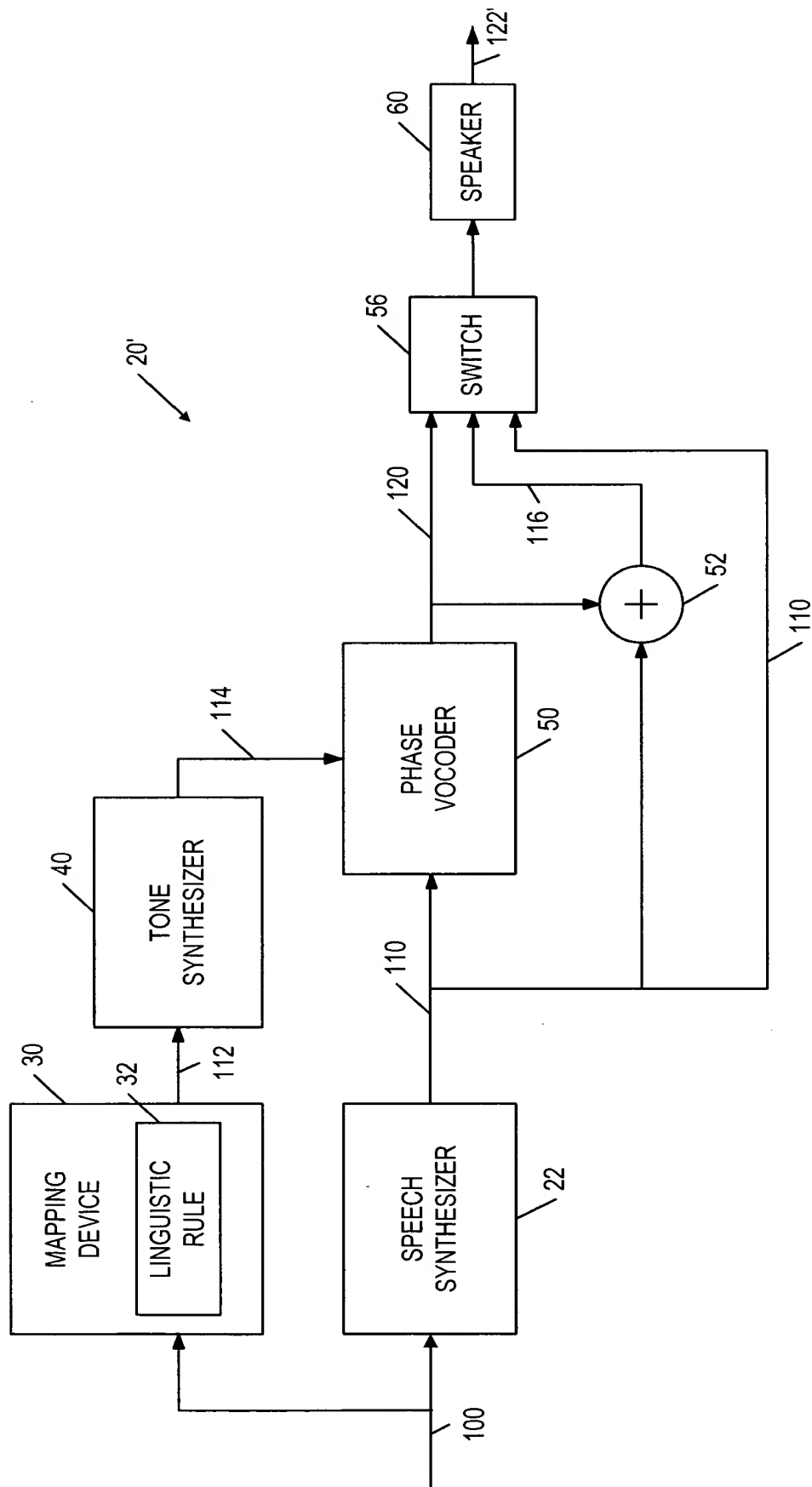


FIG. 3

The diagram illustrates a mobile phone system, designated by reference numeral 202. The system is housed within a mobile phone enclosure. At the top of the enclosure is an antenna. The main display area, labeled 212, contains a dashed rectangular region, labeled 222, which displays the text "TIMO SIBELIUS" and the phone number "358-10-54-1235". Below the display area is a "PHONE ENGINE" block, labeled 232. The Phone Engine is connected to a "SPEECH MODIFICATION DEVICE" block, labeled 20, 20', via a bidirectional arrow labeled 100. The Speech Modification Device is connected to a "SPEAKER" block, labeled 60, via a bidirectional arrow labeled 120. A speaker grille, indicated by three curved lines and labeled 122, is located on the left side of the phone enclosure.

FIG. 4

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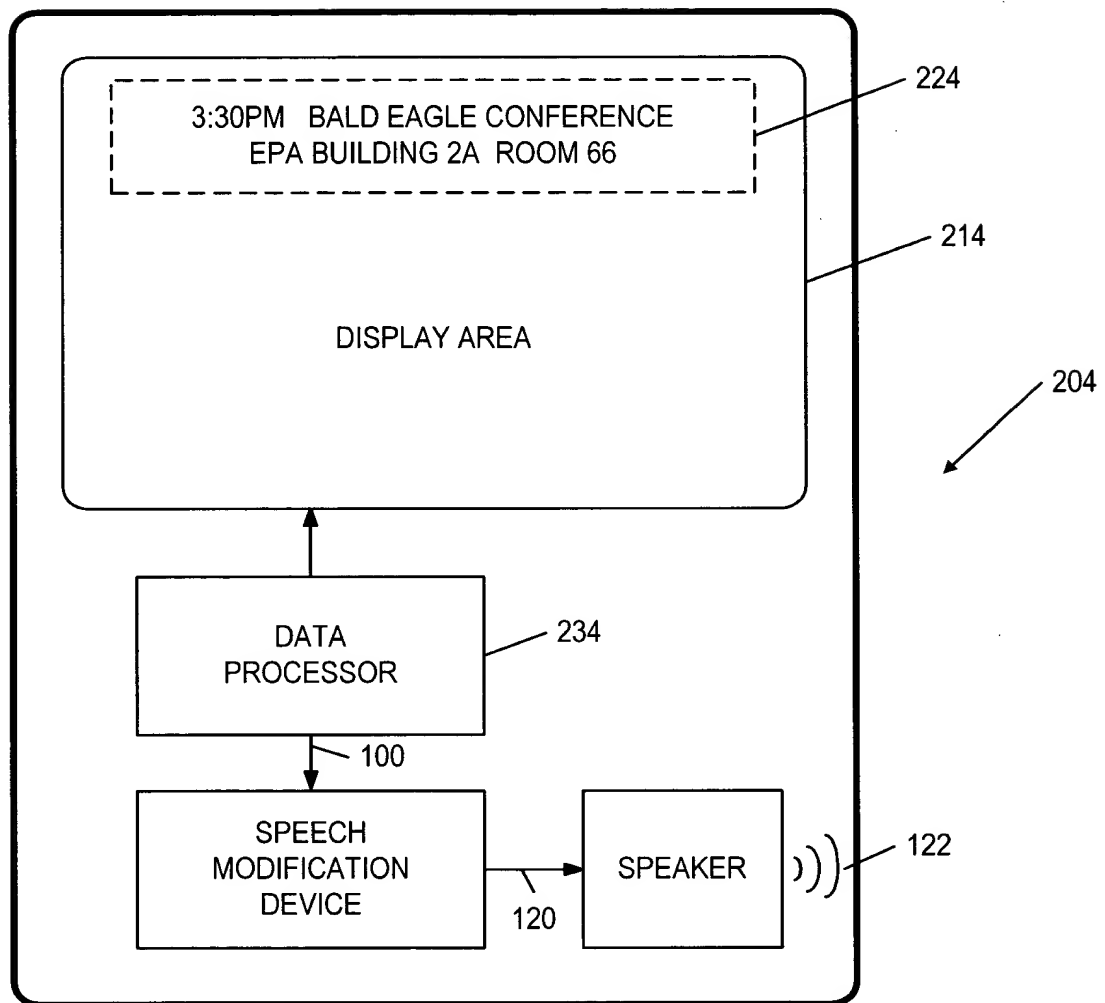


FIG. 5